

Railway signalling technology

PINTSCH BAMAG

Between tradition and vision

You cannot think about the future without reference to the past. And without tradition progress is not possible either. It is this knowledge that has made PINTSCH BAMAG to one of the most successful manufactures of safety-technology products for railways and waterways since 1843. All PINTSCH BAMAG products serve the safety of people. Our five scopes of business are:

- Railway signalling technology
- Railway vehicle equipment
- Public safety systems
- Maritime aids to navigation
- Drive technology (safety brakes)



Railway signalling technology

All over the world level crossings are the problem areas of railway systems. Their safety and the coordination of the road and railway traffic require highest reliability conjoint with simple operability and this at low investment and maintenance costs. All this is ensured by means of PINTSCH BAMAG railway signalling technology.

PINTSCH BAMAG develops, manufactures, installs and optionally maintains complete level crossing systems including housing, power supply, battery charging units, peripheral elements like barriers, audible alarm, roadside signals, trackside signals and train detection. All PINTSCH BAMAG components are licensed by the German railway board of control. Two different techniques for level crossing control units are available, RBUET and BUEP.

The control unit RBUET is designed as a vital 2-of-3 computer platform. The chosen architecture results in a high safety level combined with high technical availability and low production costs. In addition, sophisticated diagnostic features lead to an increased operational availability.

The RBUET supports all kinds of monitoring like AOCL, ABCL, AHB, MCB and CCTV. PINTSCH BAMAG has a particularly longstanding expertise in the field of 4-quad level crossing protection and the combination of the level crossing control unit and road signalling systems.

In combination with danger area warning systems, e.g. in the form of a radar scanner, the RBUET system can be configured as a fully automatic level crossing protection. Based on an approval according to the CENELEC process the first plant was installed in the Netherlands in 1998. More than 450 units were mounted in the last years.

The BUEP technique is designed as a combination of a single computer system and a safe relay control unit. Because of its high flexibility the BUEP is very popular for use in private, factory and port railways.

Due to its modular construction with basic equipment and functional groups it can be individually enlarged. The BUEP supports the AOCL, ABCL as well as MCB and CCTV. More than 700 units are installed in Germany.